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χρόνια

σεβασμό στον μάστορα

δομικά υλικά

construction materials

Atlaferrox sealer

Technical Specifications

Date of issue: 09/10/2015

Version Number: 4nd

Anti-corrosion coating for reinforcement - adhesion bridge



used in all types of relevant structural repairs for reinforcement. Due to its high adhesion capacity, it can also be used as an adhesion bridge between old and new concrete or mortar.

Surface preparation

The reinforcement must be free of rust, dust, fatty and oily substances, paints, etc., and substances that may possibly affect the adhesion of ATLAFFERROX SEALER on the steel reinforcement. The weathered and carbonated concrete that surrounds the reinforcement, as well as possible loose components, grease, oil and rust, must be removed until a healthy substrate is uncovered. In order to achieve a proper cleaning of the reinforcement until a pure metal surface is exposed, it is recommended to use sandblast. If, for any reason, this is not possible, thorough cleaning must be performed with an intense and continuous brushing with a strong metal brush. Rust residues must be processed with RUST CONVERTER so that rust can turn into metal. Additional or changed roads must be prepared in the same way.

Preparation of mixture-dilution

ATLAFFERROX SEALER is ready to use, and its dilution is not required.

Application

As an anti-corrosion coating, the product is applied with a brush in two coats. Coatings thicker than 1 mm must be avoided, because there is the risk that cracks are formed on the material. The second coat must be applied 1-2 hours after the first one. As an adhesive layer between old and new concrete or mortar, it must be applied in only one layer. The application of the new concrete is performed as long as the adhesive layer is still wet. It can be applied at temperatures between +5°C and +30°C.

Consumption

For the anti-corrosion protection of the reinforcement the consumption is 0.07-0.13 Kg/m of reinforcement.

Description

ATLAFFERROX SEALER protects the reinforcement of concrete against corrosion and acts as an adhesion layer between the old and the new mortar or concrete in repair works. It offers excellent adhesion and high anti-corrosion protection as it contains M.C.I. (migratory corrosion inhibitors) – the most modern anti-corrosion technology. It can be applied with a brush on the steel reinforcement rods in order to prevent rust, in works of repair and maintenance of the concrete reinforcement. It has a high resistance to low temperatures, is not affected by humidity, frost and salts, reduces the penetrability of carbon dioxide (CO₂) and forms, after it has completely matured, a durable and, at the same time, flexible surface. Due to its high adhesive capacity, it can also be used as a substrate between the old and the new concrete or mortar. It is classified as a reinforcement anti-corrosion protection product, according to the EN1504-7 standard.

Application Fields

It can be used in underground and overground constructions for the anti-rust protection of the steel reinforcement rods of concrete, as an adhesive mixture for repairing mortars and for the protection of reinforcement rods against rust, such as, for example, the extension rods that must remain exposed due to reasons of proper scheduling of the construction works. It is necessary for the protection of the exposed reinforcement of concrete which is due either to carbonation or to incomplete casting and damage caused by an earthquake. Furthermore, it is recommended that it is applied for preventive reasons on particularly thin concrete walls, for the protection of the steel reinforcement, in areas with constant high humidities. It can be



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For a connection layer between old and new mortar or concrete the consumption is 0.3-0.6 Kg/m².

Storage

It can be stored for at least 12 months after its production date, as long as it is kept in its industrially sealed package and is stored in a dry place, protected from humidity. After each use, its initial recipient must be tightly sealed and stored under the same conditions.

Technical Specifications

Form: Paste-like

Color: Reddish

Density: 1.71 ± 0.01 kg/L (ISO 2811.01, 20°C)

pH: 7-9

Drying Time: 1-2 hours

Shear Adhesion Strength (EN 15184): Approved

Corrosion Protection (EN 15183): Approved

Storage

At least 12 months from production date, provided it is stored in factory-sealed packaging in a dry environment, protected from moisture. Seal the original container hermetically after each use and store under the same conditions.

Volatile Organic Compounds (VOCs)

The EU limit value for VOC content (Directive 2004/42/EC) for this product (Category A/h 'Binding Primers', Type Y) is 30 g/L (2010). The ready-to-use product contains a maximum of 6 g/L.

Packaging

Reddish

1 kg.

Safety information

Read the label before use. For detailed instructions - precautions, consult the Product Safety Data Sheet. Poison Information Centre: (+30) 210 77 93 777.

CE

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EN 1504-7

DoP No.: ATLACOLL- ATLAFFERROX SEALER -11903-01
NB: 1871

Reinforcement corrosion protection product for uses other than
low performance requirements

Corrosion protection: Pass

Dangerous substances: comply with 5.3

